SONY

3-752-165-21 (1)

Electronic Crossover Network

XEC-500

Operating Instructions page 2

Before using the unit, please read this manual thoroughly and retain it for future reference.

Owner's Record

The model and serial numbers are located on the bottom of the unit. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. XEC-500 Serial No. _____

Mode d'emploi page 8

Avant la mise en service de cet appareil, prière de lire attentivement ce mode d'emploi que l'on conservera pour toute référence ultérieure.

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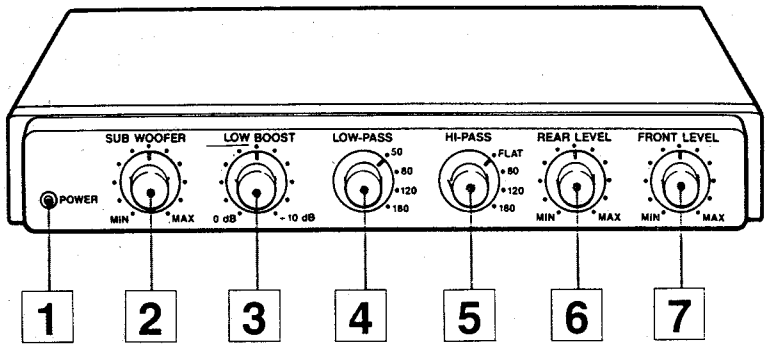
SECTION 1
GENERAL

Location and Function of Controls

Front panel



1 POWER indicator

2 SUB WOOFER output level control
Turn to adjust the output level of SUB WOOFER OUTPUT.

3 LOW BOOST level control
Turn to boost the frequencies around 40 Hz at the maximum of 10 dB.

4 LOW-PASS (low-band crossover point) selector
Turn to select the crossover frequency above which will be cut off.

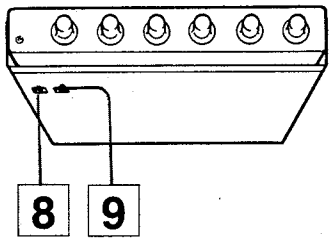
5 HI-PASS (high-band crossover point) selector
Turn to select the crossover frequency below which will be cut off.

6 REAR LEVEL control
Turn to adjust the output level of REAR OUTPUT.

7 FRONT LEVEL control
Turn to adjust the output level of FRONT OUTPUT.

Location and Function of Controls

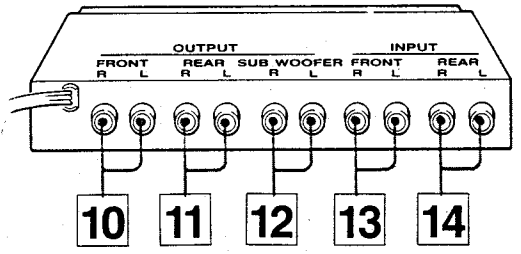
Bottom



8 SUB WOOFER F & R/R (front and rear/rear) selector
Use this to select the output from SUB WOOFER OUTPUT. Set it to F & R to obtain the summation of signals from FRONT INPUT and REAR INPUT, or set it to R to obtain only signals from REAR INPUT.

9 SUB WOOFER ST/MONO (stereo/monaural) selector
Set it to MONO to obtain monaural output from SUB WOOFER OUTPUT. In this case, do not set LOW-PASS to 180. The balance of a sound may be affected if you do so.

Rear



10 FRONT (R/L) OUTPUT connectors

11 REAR (R/L) OUTPUT connectors

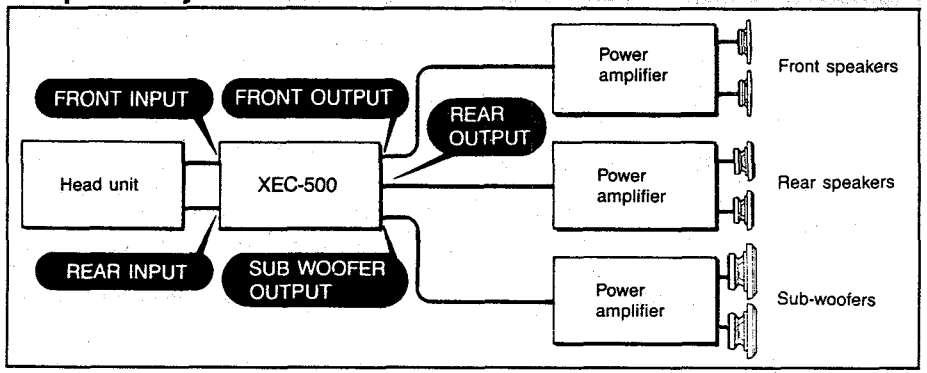
12 SUB WOOFER (R/L) OUTPUT connectors

13 FRONT (R/L) INPUT connectors

14 REAR (R/L) INPUT connectors

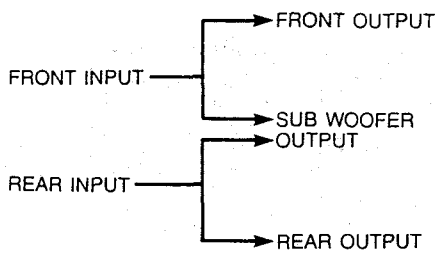
Some Examples of System Configuration

6-speaker system

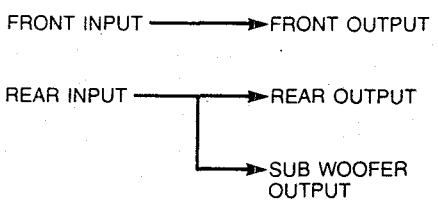


This system consists of the head unit with two pre-amplifier outputs, and three power amplifiers and three pairs of speakers. In this system, the signals flow as follows:

- **When SUB WOOFER F & R/R is set to F & R**

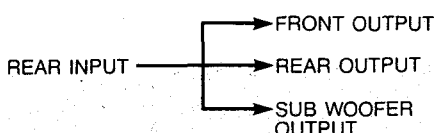


- **When SUB WOOFER F & R/R is set to R**



To use the head unit equipped with only one pre-amplifier output

Connect the output of the head unit to REAR INPUT. The signals flow as follows:

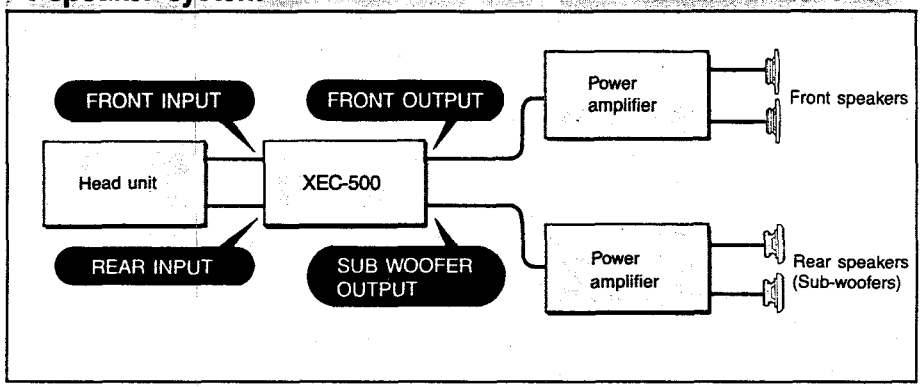


Note

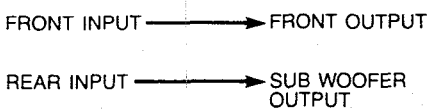
Be sure not to connect the output of the head unit to FRONT INPUT when the head unit with only one pre-amplifier output is used. If you do so, the sound will not be heard.

Some Examples of System Configuration

4-speaker system



This system consists of the head unit with two pre-amplifier outputs, and two power amplifiers and two pairs of speakers. In this system, set SUB WOOFER F & R/R to R. By setting so, the level of the rear speakers (sub-woofers) can be adjusted with the fader control of the head unit. The signals flow as follows:



When only one rear speaker is used

SUB WOOFER ST/MONO should be set to MONO. In this case, do not set LOW-PASS to 180. The balance of a sound may be affected if you do so.

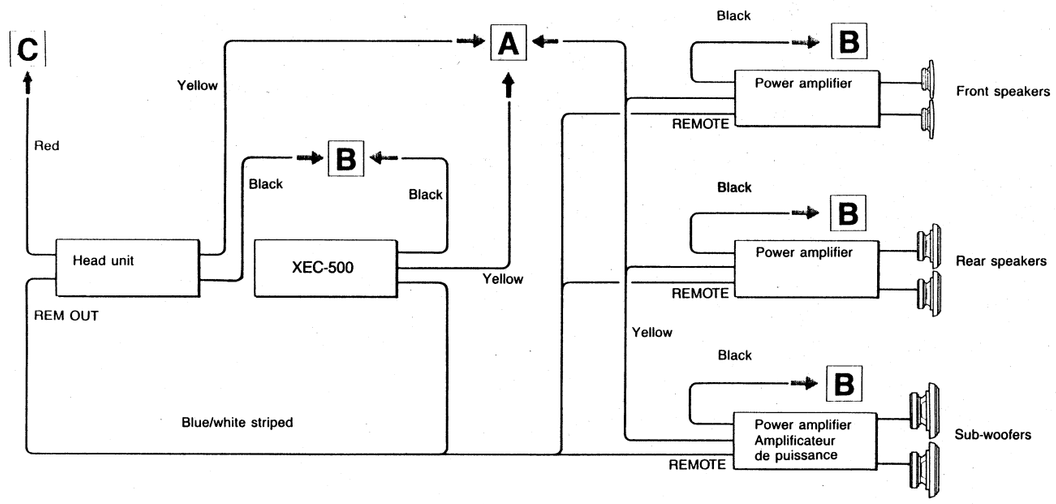
Connections

Caution

- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the yellow power input lead only after all other leads are connected. And be sure to connect it to the positive 12 V power terminal.
- **Run all ground wires to a common ground point.**

Note on amplifier and program source connection
The red jacks of the unit are for right-channel connection and the white jacks for the left-channel.

Power Connections Example

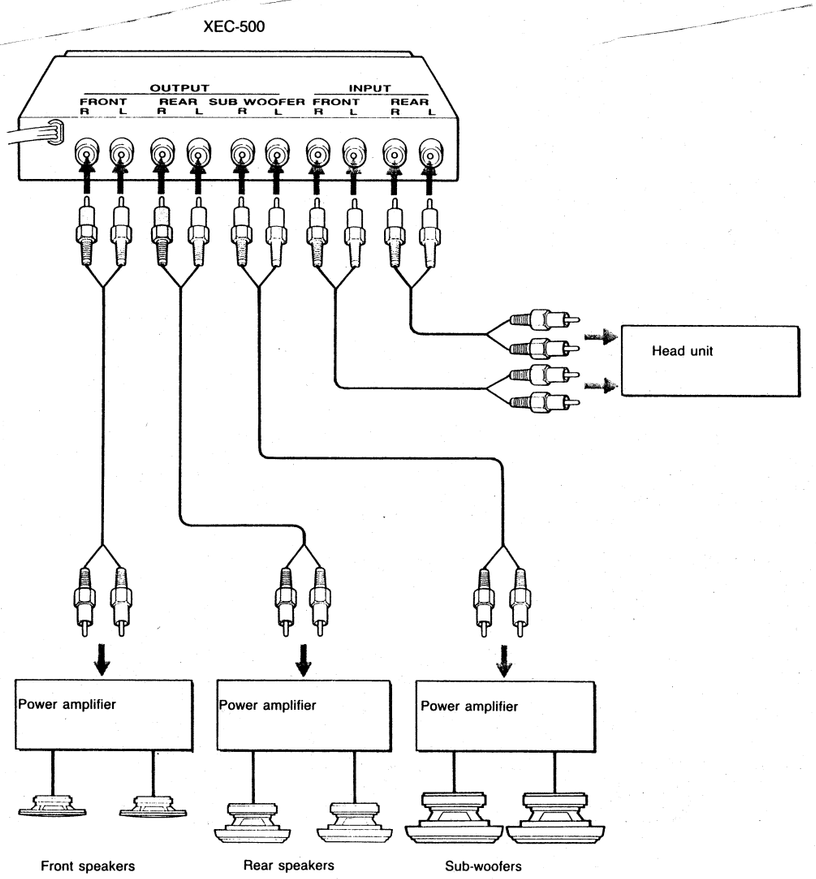


A To the ⊕ (positive) terminal of the car battery

B To a metal part of the car

C To the ⊕ (positive) terminal which is energized when the ignition key is turned in the accessory position

Signal Connections Example



Installation

Precautions

Use the supplied mounting hardware.

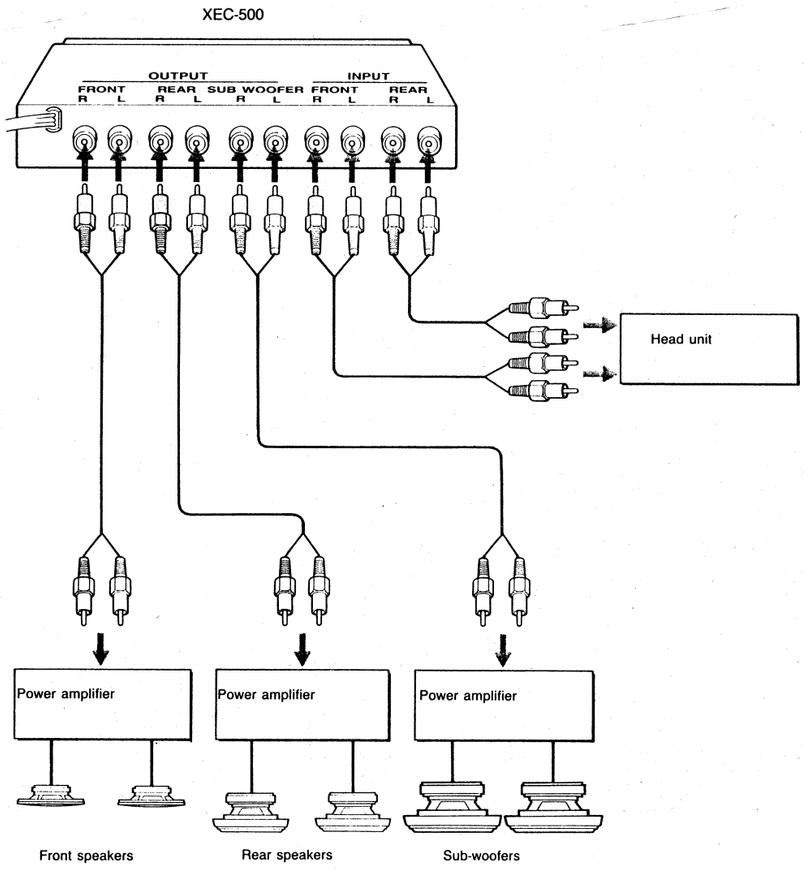
1 Mark the locations of the holes on the bottom of the dashboard using the part (F) as a template.

Notes
- Be sure to use the supplied bolts (B) for mounting the part (F) on the unit. Longer bolts will damage the unit.
- Be careful not to damage wiring or equipment on the other side of the firewall.

B To a metal part of the car

C To the ⊕ (positive) terminal which is energized when the ignition key is turned in the accessory position

Signal Connections Example

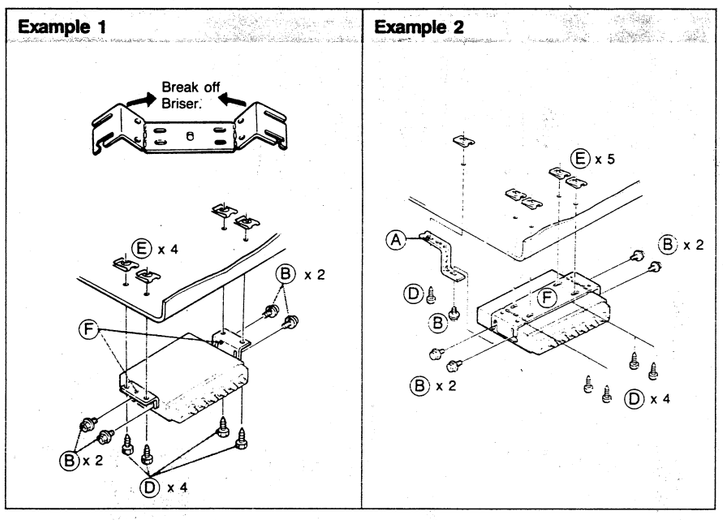


Installation

Precautions

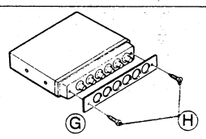
- Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or from hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting Example



To Avoid Accidental Operation

Attach the supplied protection plate (G) to the front panel of the unit.



Use the supplied mounting hardware.

1 Mark the locations of the holes on the bottom of the dashboard using the part (F) as a template.

2 Drill 3 mm ($^1/_8$ in.) bolt holes.

3 Secure the pieces of the part (F) which are broken off to the bottom of the dashboard*.

4 Secure the unit to the part (F) .

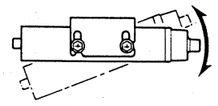
* If the dashboard or the firewall is thin or made of plastic or a similar material, secure the unit with tapping screws and tinnerman clips (E) . If it is made of metal plate, the tinnerman clips are not necessary.

The unit can be installed inside the dashboard using an optional in-dash installation kit.

Notes

- Be sure to use the supplied bolts (B) for mounting the part (F) on the unit. Longer bolts will damage the unit.
- Be careful not to damage wiring or equipment on the other side of the firewall.

The mounting position, height and angle can be adjusted as illustrated below.



Supplied Mounting Hardware

The letters in the list are keyed to those in the instructions.